

CLAIM

I claim as my invention is:

The incorporation of 2 rigid rockers in a face to face dual piston engine. Each rigid rocker will be anchored at points (5) and (6). Points (3) and (4) of rigid rockers are hinged to the piston rods which connect to the pistons of the dual piston engine. At points (1) and (2) of the dual piston engine. Points (9) and (10) of the rigid rockers are hinged to a set of push/pull rods which will connect to the main crank at points (11) and (12). The pistons move from top dead center to bottom dead center. Thus, reciprocating action is converted to rotating action at the output crankshaft. The pistons of the dual face to face engine move from bottom dead center back to top dead center, and a complete cycle has been achieved. The rigid rockers have actuated through a complete cycle, intake, compression, combustion and exhaust.

The rigid rocker engine is balanced on each side of its pivotal Axis, thus while running at very high RPM'S. Its pivotal axis of the rigid rockers should experience very little friction; where the two pistons come together, the face to face dual piston engine does not encompass a fixed head, the dual piston rigid rocker concept experiences equal opposite reaction, in this concept, less heat is

generated due to more efficiency in this design concept. Engine piston size and weight may be reduced by approximately $\frac{1}{2}$ due to two pistons operating in one cylinder, 180° apart, working on the same stroke/thrust/cycle, contributes to the overall efficiency of this engine concept; each rigid rocker marriage assembly consisting of two rigid rockers, a piston sleeve with two fitted pistons, and the connecting rods and links will be attached to a single output crank shaft in tandem, one rigid rocker assembly represents one cylinder/two piston engine, two assemblies in tandem represents two cylinders/four piston engine, with the two pistons closing on to each other in the compression stroke should incur a higher compression ratio, therefore causing spontaneous combustion to occur in a gasoline engine such as in a diesel engine.